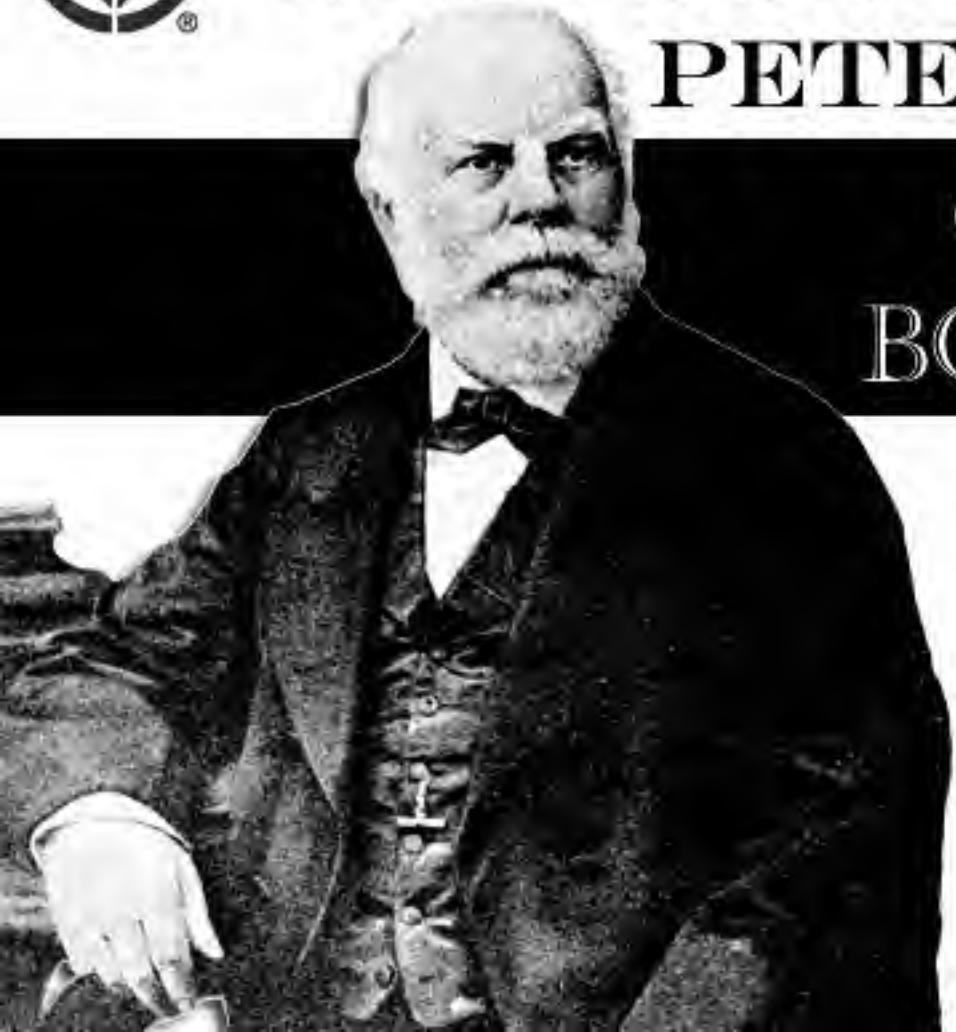




MISSOURI BOTANICAL GARDEN

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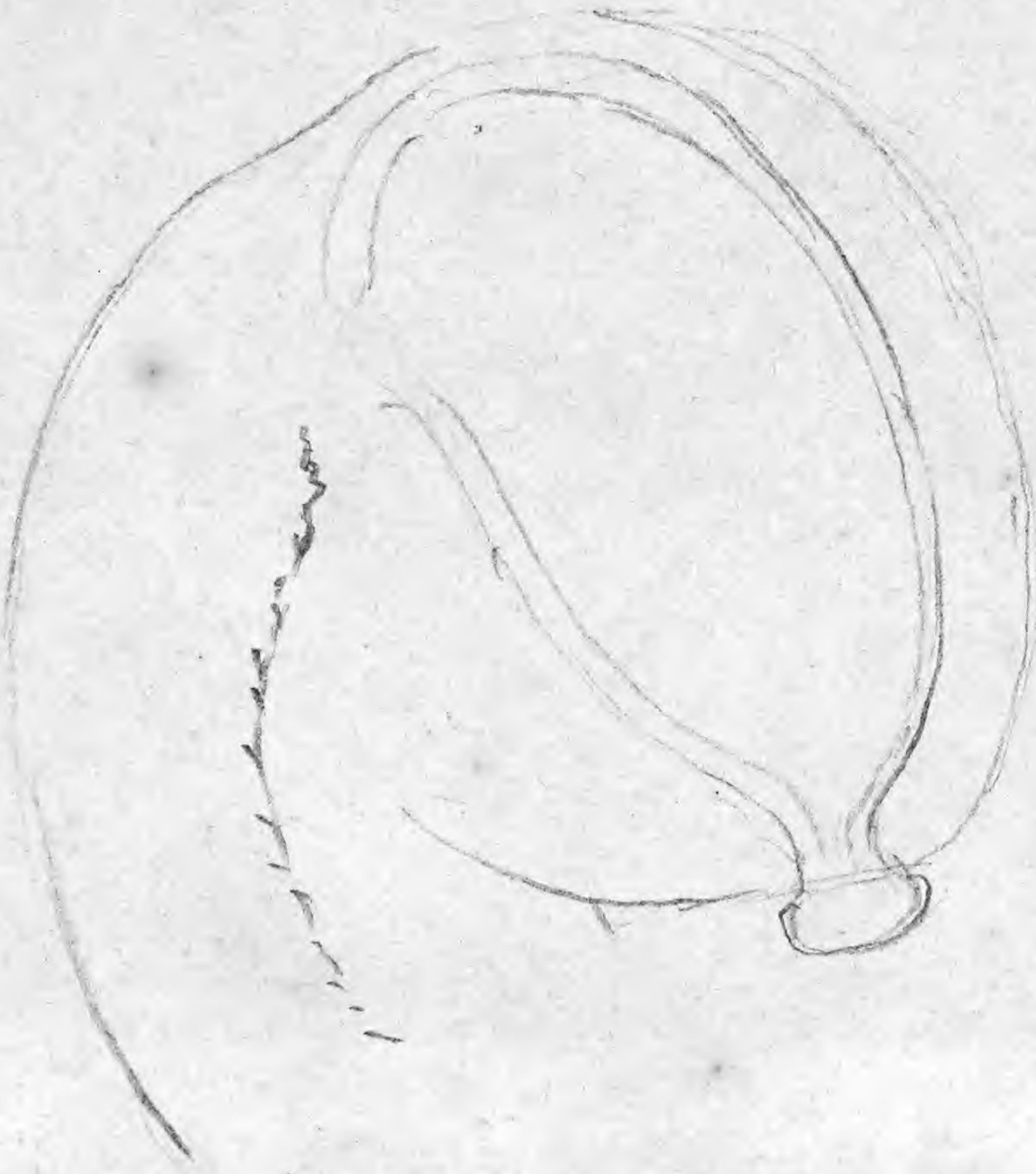
GEORGE ENGELMANN BOTANICAL NOTEBOOKS

Pagination Note:
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

Ceratodon purpureus
Hd. Missouri

July 1 1865

1940



ovule
before germination
flower just
opening

ovules usually 2-6 together
on short pedicels



0 1 2 3 4 5 6 7 8 9 10

cm

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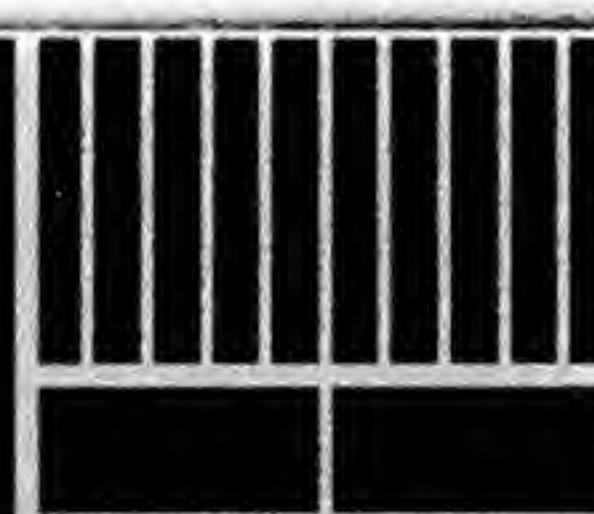


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GARDEN

ALEX. LEITCH,
APOTHECARY & PHARMACEUTIST,

Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

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Carex sanguinosa
H. A. Miers

June 22 1864



X10

Pollen

x 415

0.054 in - 0.058 C

1941



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cm

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Ceratodon purpureus

Jan 22 1864

Hol. Oct. Union

stigmata 5 erect-petal, white, 6-7 lbs by
ovary oblong, globose, 8 lbs dark, with 40
tuberous tubercles, with green subulate decid.
sepals, and numerous whitish tubercles
fl. & fruit, by, white.

tube 6 inches long, gradually widening with few dephts,
lower part more crowded, much like those of ovaries,
middle & top, with few tortuous bristles, - easily
up 25-28 more crowded, gradually petaloid,
reddish or greenish red externally

tube 2 $\frac{1}{2}$ inches with naked, for the following
~~2 $\frac{1}{2}$ or 3~~ inches stems sparing, few,
for the last $2\frac{1}{2}$ -inch very much crowded, over



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cm

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gradually aduate - no distinct
Corona

Style with slight abut & makes
long.

Broth, columnar, with 5 flowers
- success, all with upper half or
third of stem

anthers $1\frac{1}{2}$ in long

Pollen 0.055 μ
 $^{+0.055}$
viomonose

ovule - branching funneli 2-3 or
even more together. funneli apparently
rolled and thick

1942 hair



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cm

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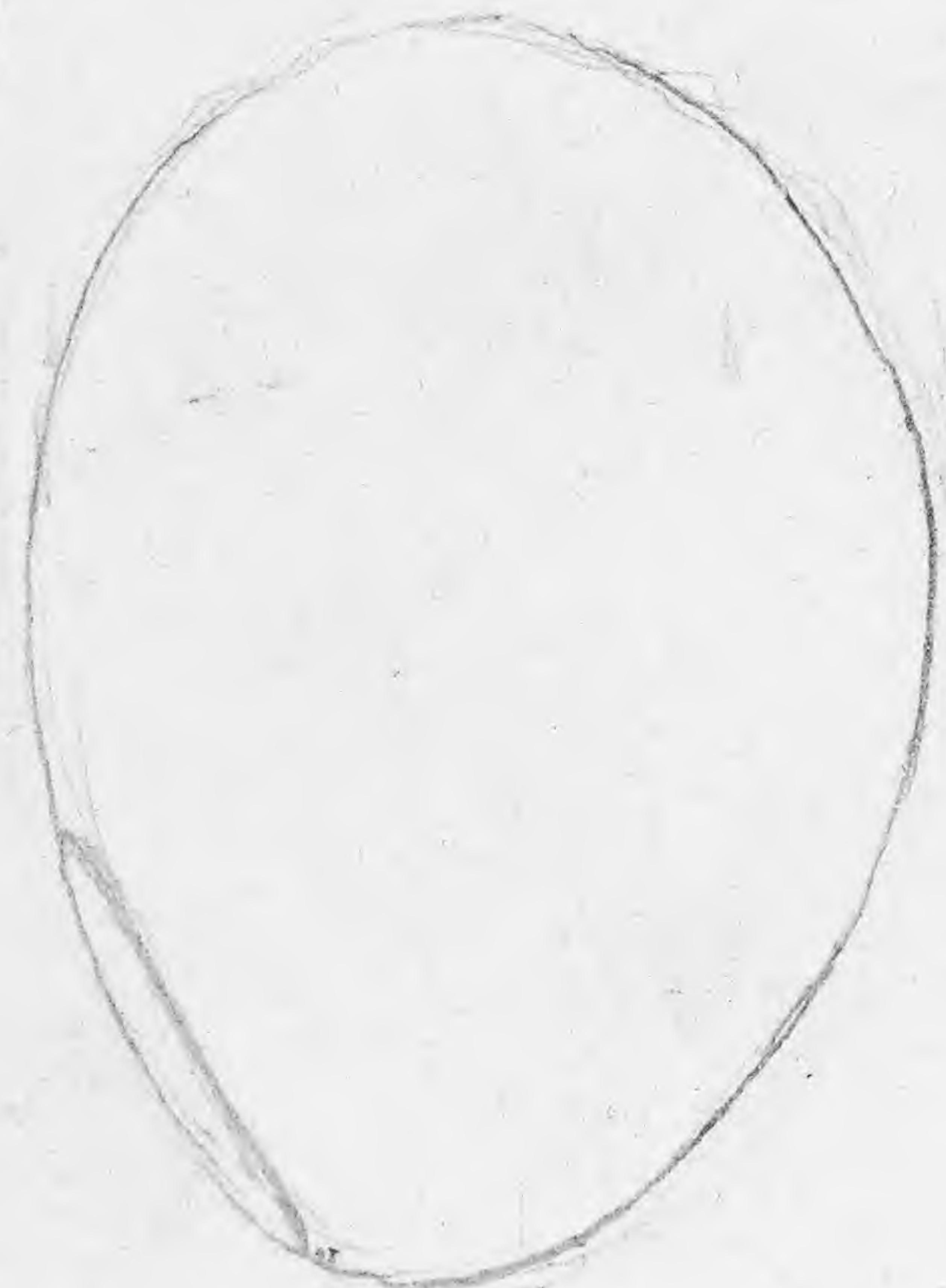
Cerus serpentinus

Dec 19 1882

ex Herb Pflanz, Paris

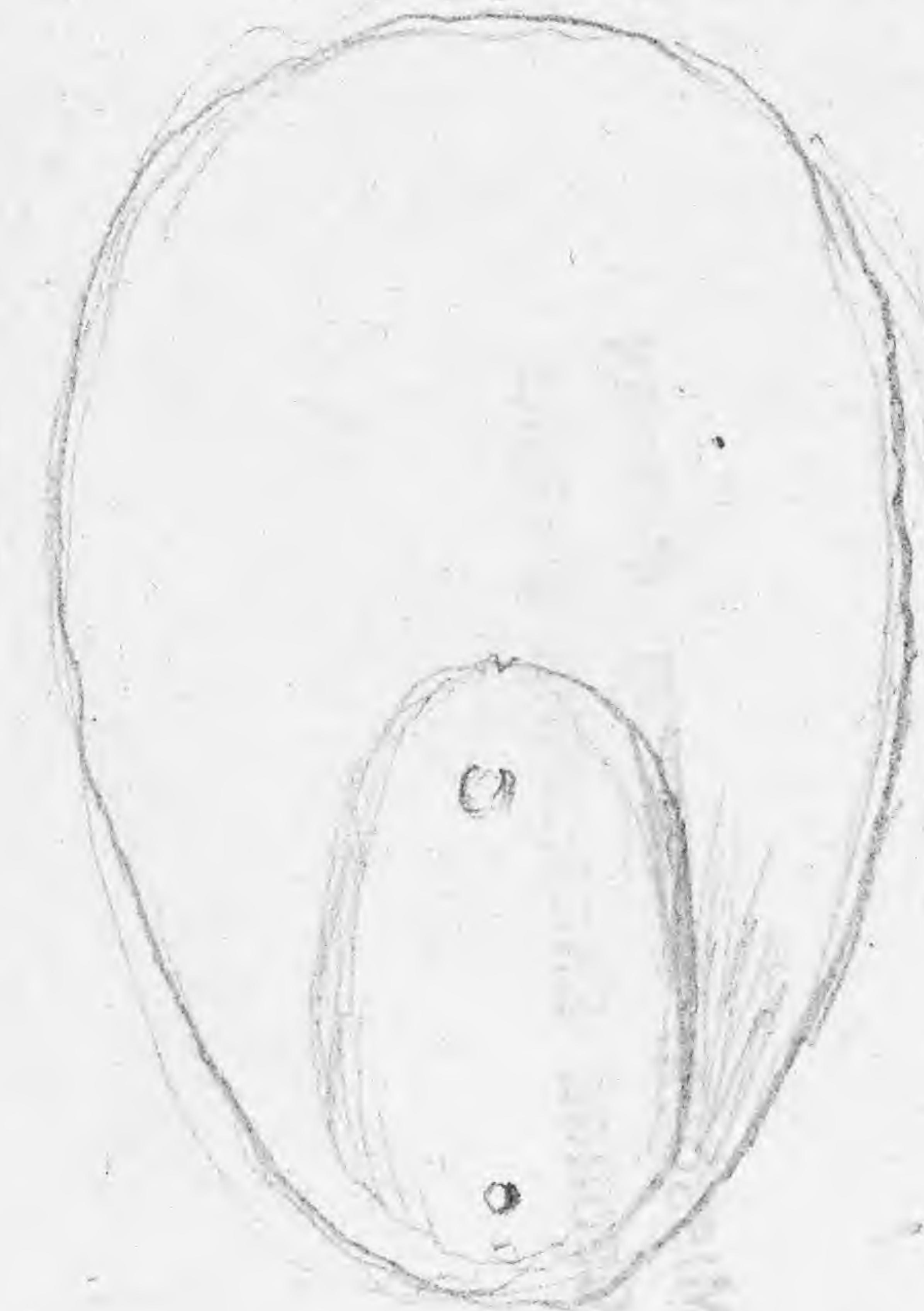
de J. Weber mis 1882

x8

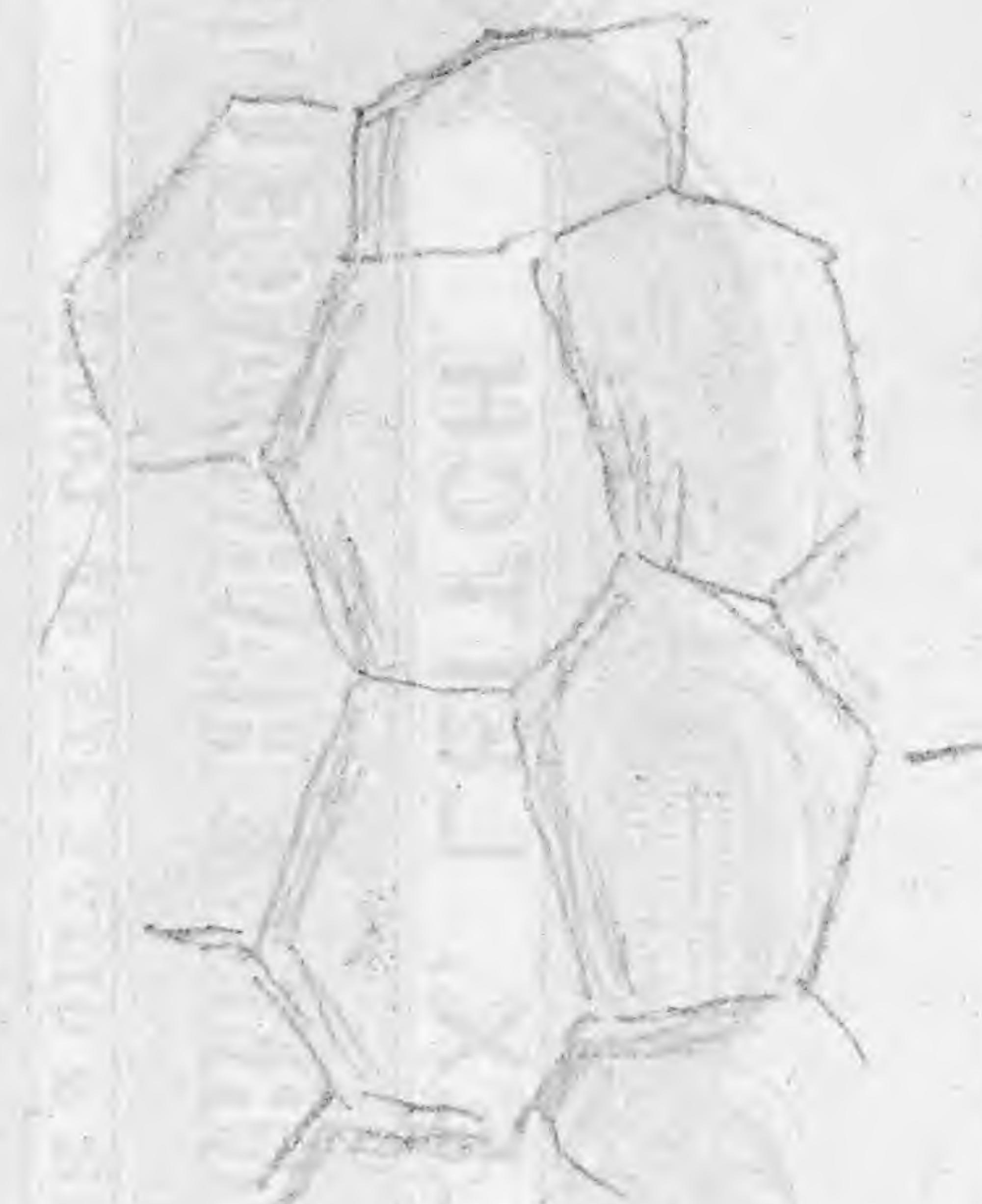


largest *Cerus* seed

7 mm long
5 mm thick



x150



1943

seed deep brown
shining; with very
slight rugosity, which under
a higher power appears as a
shallow reticulation, with
very slightly depressed areas



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10-12 short (1-1½ in S) spikes

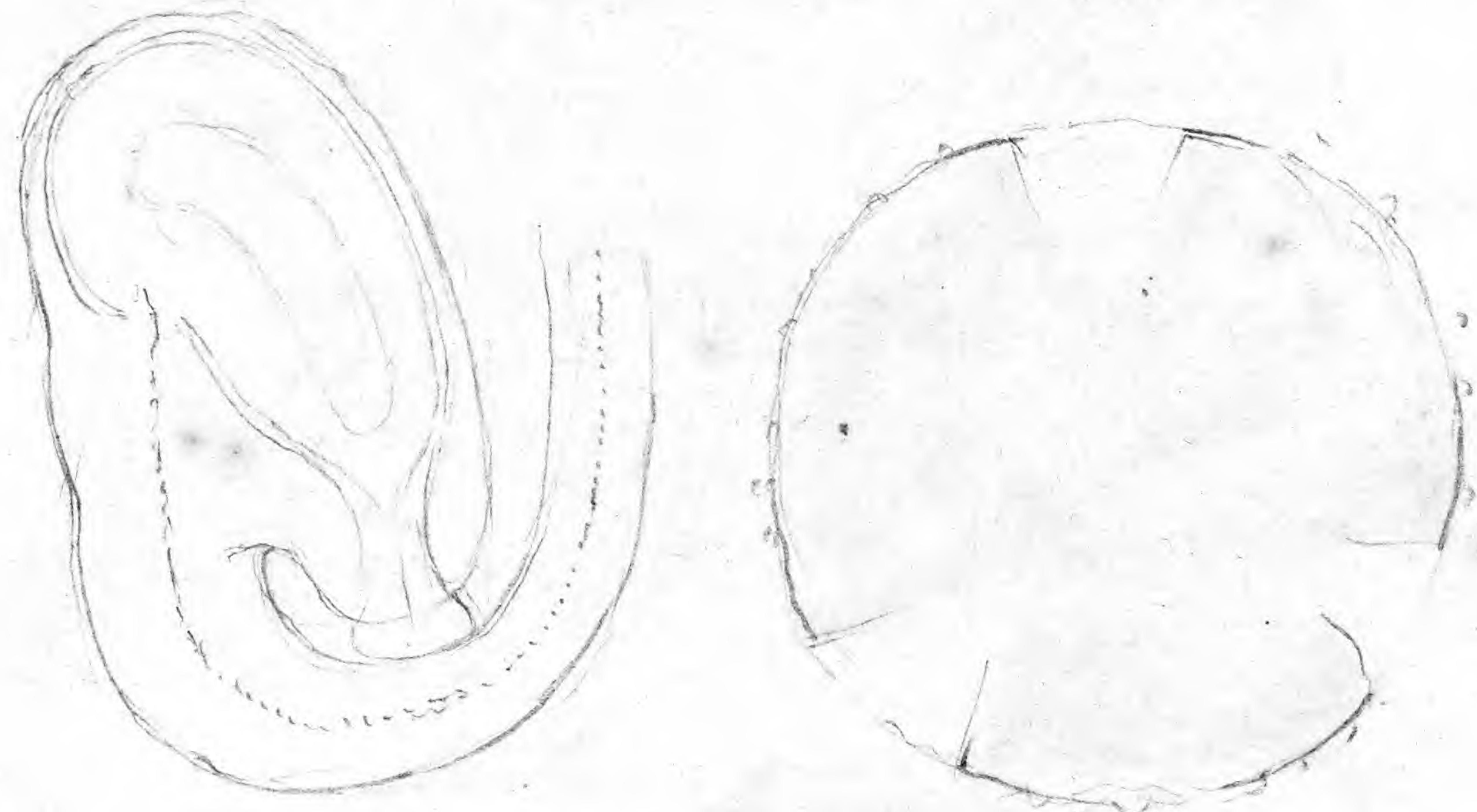
Cerasus

various stages

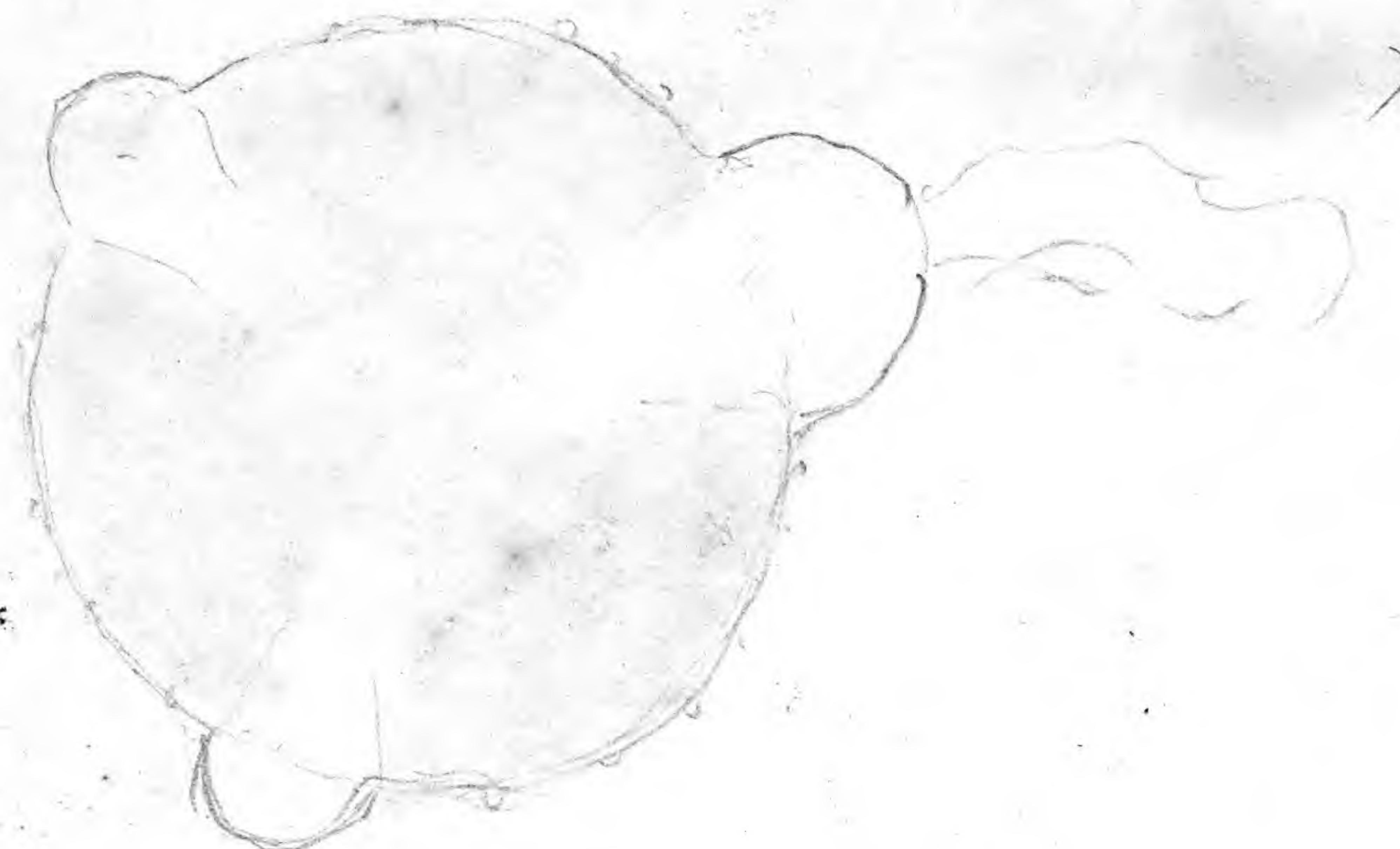
Hort. Göteborg May 25 1865

1944

x60



x 415



Pollen 0.040-0.046 mm

in its axil.
35-40 sepal - tube fleshy, lanceolate -
ovary spars - longer & fewer spreading.
Intern sepal very fleshy, elongate - lanceo.
late, aristate - reddish. outside
Petals white acute, anstate;
2-3 inches - stained



cm

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Cirrus

1945

Gobles garden June 11 1864

climbing, radicant, similar to flagiferous
terete twigs (- 1 1/2 inch thick),
areolar prostrate, 6 lines apart.

10-12 short (1-1 1/2 in h) spikes,
38 - 0.039 in shape & stiff 3 or 4 of them a little stout,
and more central.

Flower perhaps 4 inches long
white - night blooming - exterior sepals yellowish
densely ⁴⁵⁻⁵⁰
ray oval covered with ~~spikes~~ ^{about 40-60}
tubercles of a subulate shape (like Echinocerous)
spinous areolar (like Echinocerous)
Tube elongated with ^{numerous} fleshy tubercles
and spiny or bristly areolas, which are
also found in the axils of the middle sepals
stamens gradation adnate - no distinct
ring of outer stamens!
^{563 - petals, 1/2 inch long, about 12}

x10



same plant in flower middle of May 1865 - passed
May 25th

1946

flowers 6 inches long
oval rays strongly tuberculate, tubercles becoming
a subulate red deciduous sepal, and spines
in its axil

35-40 sepals - tube fleshy, campanulate -
longer spurs - longer and fewer exposed.

Interior sepals very fleshy, elongate-lanceo-
late, aristate - reddish outside

Petal white adnate, aristate.
Nake space of tube nearly 2 inches - stained
part same length - gradient adnate - no corona,
15 stigmaria filiform, 1/2 inch long.



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cm

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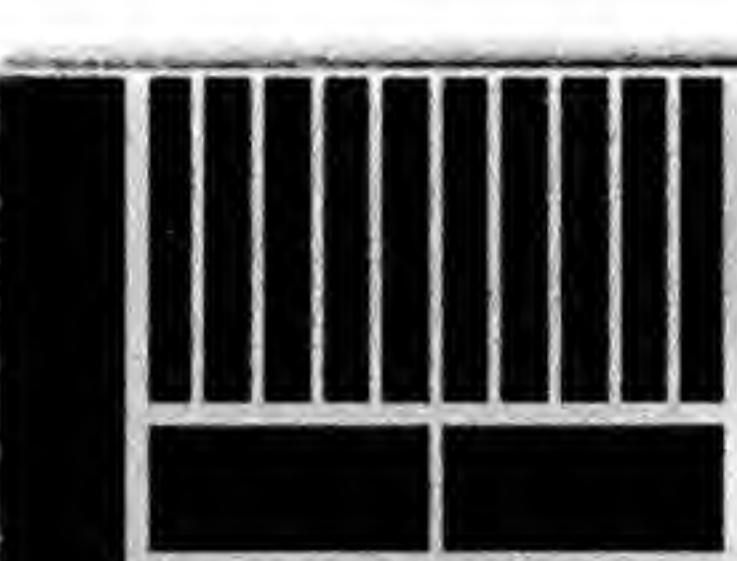


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"Cocculus repandus Haw."

April 6 1865-

Hort botan. Wien coll 1837

x 8



oblique parallel
rare - usual

seed covered with flat, indistinct
confluent tubercles
with numerous pits between
them, which alone are conspicuous
therefore : seed irregularly pitted

1947



0 1 2 3 4 5 6 7 8 9 10

cm

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D R U G G I S T S ,

South-West Corner of Fifth and Market Streets.

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Wright, Cuba 2623

Cornus emoryi? April 6 1865

x8

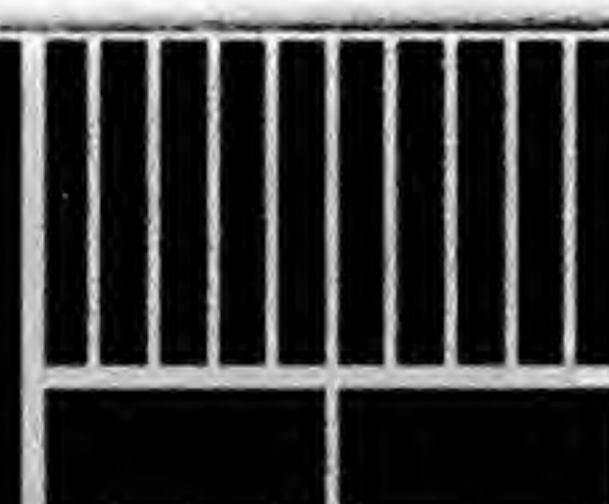


1948

Dorsal
very thick brittle testa of seed.
embryo small

Seed covered with flattened tubercles
largest on the coast; and pits between
them irregularly distributed.

all the seeds examined have
cotyledons parallel like
Ochnosiastrum !!



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cm

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cm

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"Ceris Ehrenbergii"

April 6 1865

Hort. Bot. Venet. Jan 1858

said to be = erector & eriophorus

x8



cotyledones
contrarie



oblique

Cotyledons mostly
regularly
contrarious
or rarely oblique

1949



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cm

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0 1

2 3

4 5

6 7

8 9

10

cm

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